

AUTHOR INDEX

- Aamlid, K.H. 281
Adams, B. 29
Adelhorst, K. 69
Ahmed, H. 247
Al-Masoudi, N.A. 287
Amochaeva, V.Y. 77
Aono, R. 173
- Basu, S. 247
Berger, A. 21
Bhattacharjee, M.K. 191
Bodor, N. 53
Brewster, M.E. 53
Brillouet, J.-M. 315
- Cerezo, A.S. 217
Chatterjee, B.P. 247
Chittenden, G.J.F. 297
Cubero, I.I. 109
- Dax, K. 21
Demchenko, A.V. C7
Dewar, M.J.S. 53
Diáñez, M.J. 265
- El-Nawawy, M.A. 153
Englert, G. 141
Estrada, M.D. 265
- Fett, W.F. 271
Fritsch, D. 11
Fuhrhop, J.-H. 11
- Garcia-Campayo, V. 229
Gurijala, V.R. 277
- Haines, R.M. 1
Hasegawa, A. 303
Hicks, K.B. 1
Hizukuri, S. 203
Horikoshi, K. 173
Hotchkiss, Jr., A.T. 1
Huang, M.-j. 53
- Ishida, H. 303
Ito, M. 173
Ito, Y. C1
Ivanova, I.A. 91
Izquierdo Cubero, I. 281
- Jarý, J. 291
- Kaminski, J.J. 53
Kenne, L. 181
Kiso, M. 303
Klimov, E.M. C7
Knappmann, B.R. 153
Knirel, Y.A. C11
Kobayashi, K. 161
Kochetkov, N.K. 77, C7, C11
Köll, P. 21
Kopf, J. 21
Kula, M.-R. 153
- Lerner, L. 29
Leteux, C. 119
Lindberg, B. 181
López-Castro, A. 265
López-Espinosa, M.T.P. 109
Luijkx, G.C.A. 131
- Malysheva, N.N. C7
Marcelin, O. 315
Matsuzaki, Y. C1
Mayer, B. 141
Mayer, R.M. 191
Mereyala, H.B. 277
Morf, M. 21
Mosihuzzaman, M. 181
Müller-Fahrnow, A. 11
Murugesan, G. 203
- Nakahara, Y. C1
Nifant'ev, N.E. 77
Nikolaev, A.V. 91
Nomura, K. 161
Nunomura, S. C1

Ogawa, T. C1
Ogawa, Y. 303
Okada, M. 161
Ortega, M.D.S. 109
Osman, S.F. 271

Paramonov, N.A. C11
Pfleiderer, W. 287
Pitha, J. 53
Plaza López-Espinosa, M.T. 281
Pop, E. 53

Rahman, M.M. 181
Raich, I. 291
Ray, S. 247
Richardson, A.C. 109, 281
Robert, F. 119

Saenger, W. 11
Saimoto, H. 167
Sashiwa, H. 167
Saulnier, L. 315
Schlegel, H.G. 153
Schnieder, P. 11
Shashkov, A.S. 77, C11

Shibaev, V.N. 91
Shibanuma, K. 203
Shigemasa, Y. 167
Sicińska, W. 29
Stortz, C.A. 217
Stütz, A.E. 21
Sugimoto, M. C1
Szarek, W.A. 311

Tokura, S. 167

Van Bekkum, H. 131
Van Rantwijk, F. 131
Veyrières, A. 119
Vinogradov, E.V. C11

Wakida, M. 303
Wessel, H.P. 141
Whitesides, G.M. 69
Williams, P. 315
Wood, T.M. 229

Zimmer, B. 21
Zou, W. 311

SUBJECT INDEX

- N*-Acetyl group distribution in partially deacetylated chitins, 167
- Aldose peracetates, synthesis of 1,2-*trans*-per-*O*-acetyl-D-glycosyl chlorides by reaction with thionyl chloride–acetic acid of 1,2-*trans*-, 297
- 3-*O*-(Alkyl-branched acyl)-2-deoxy-2-[(3*R*)-3-hydroxytetradecanamido]-4-*O*-phosphono-D-glucose derivatives related to bacterial lipid A, synthesis, 303
- 2-Amino-2,6-dideoxy-D-glucose (D-quinovosamine) isolated from the cell walls of the alkaliphilic *Bacillus* sp. Y-25, identification by ¹H NMR spectroscopy, 173
- 2-Amino sugars, stereospecific synthesis of 1,2-*cis*-glycosides of, C7
- AM1 molecular orbital study of α-D-glycopyranose and β-maltose, an.; Evaluation and implications, 53
- 2,3-Anhydro-α- and -β-L-erythrofuranside, synthesis of methyl, 291
- Anhydro derivatives of neuraminic acid, formation upon treatment of a new sialic acid-containing polysaccharide with anhydrous hydrogen fluoride, C11
- 1,6-Anhydro-D-glucopyranose framework, electrophile-mediated cyclization on, 119
- O-Antigen polysaccharide, structural studies of the *Vibrio fluvialis* M-940, 181
- Azide, the reaction of methyl 5-thio-3-*O*-toluene-*p*-sulfonyl-α-D-glucopyranoside and its triacetate with sodium, 287
- Bacillus* sp. Y-25, identification by ¹H NMR spectroscopy of 2-amino-2,6-dideoxy-D-glucose isolated from the cell walls of the alkaliphilic, 173
- 1,2,4-Benzenetriol, hydrothermal formation from 5-hydroxymethyl-2-furaldehyde and D-fructose, 131
- Bola-amphiphile, molecular and crystal structure of *N*-[8-(D-gluconamido)octyl]-D-gluconamide, 11
- Carbohydrate specificity of the lectin of *Ficus cunia*, purification, characterisation and, 247
- Carrageenans, the systems of, from cystocarpic and tetrasporic stages of *Iridaea undulosa*: fractionation with potassium chloride and methylation analysis of the fractions, 217
- Chemical synthesis of a comb-shaped branched stereoregular polysaccharide, 4-*O*-α-D-mannopyranosyl-(1 → 6)-α-D-mannopyranan, 161
- Chitins, partially deacetylated, *N*-acetyl group distribution in, 167
- Crystal and molecular structure of 1-phenyl-(1,2-dideoxy-α-D-glucofurano)[2,1-*d*]imidazolidine-2-selone, 265
- Crystal and molecular structures of 1,2,3,4,5,6,7,8-octa-*O*-acetyl-L-threo-L-alto- and -L-threo-L-galacto-octitol, 21
- Crystal and molecular structure of the bola-amphiphile *N*-[8-(D-gluconamido)octyl]-D-gluconamide, 11
- Cyclization on the 1,6-anhydro-D-glucopyranose framework, electrophile-mediated, 119
- Deacetylated chitins, partially, *N*-acetyl group distribution in, 167
- 3-Deoxy-D-erythro-hex-2-ulonic acid 6-phosphate (KDPG) microbial synthesis, 153
- 1-Deoxythiomannojirimycin, enantiospecific synthesis from a derivative of D-glucose, 109
- Dextranucrase from *Streptomyces sanguis* in acceptor-dependent reactions, formation of α-(1 → 6), α-(1 → 3), and α-(1 → 2) glycosidic linkages by, 191

- (*R*)-1,6-Dioxaspiro[4.5]decane, enantiospecific synthesis from a derivative of D-fructose, 281
- Electrophile-mediated cyclization on the 1,6-anhydro-D-glucopyranose framework, 119
- Enantiospecific synthesis of (*R*)-1,6-dioxaspiro[4.5]decane from a derivative of D-fructose, 281
- Enantiospecific synthesis of 1-deoxythiomannojirimycin from a derivative of D-glucose, 109
- Erythrofuranoside, synthesis of methyl 2,3-anhydro- α - and - β -L-, 291
- Exopolysaccharide of *Pseudomonas marginalis* strain ATCC 10844, structure of the acidic, 271
- Ficus cunia*, purification, characterisation, and carbohydrate specificity of the lectin of, 247
- D-Fructose, enantiospecific synthesis of (*R*)-1,6-dioxaspiro[4.5]decane from a derivative of, 281
- β -L-Fucopyranosyl phosphate, synthesis of, 69
- α -Fucosylation by 2,3,4-tri-*O*-benzoyl- α -L-fucopyranosyl bromide under Helferich conditions, 77
- Fungus *Neocallimastix frontalis*, purification and characterisation of a β -D-xylosidase from the anaerobic rumen, 229
- 2-Furaldehyde, hydrothermal formation of 1,2,4-benzenetriol from D-fructose and 5-hydroxymethyl-, 131
- GD₂, stereocontrolled synthesis of, C1
- GDP- β -L-fucose, synthesis of, 69
- D-Gluconamide, molecular and crystal structure of the bola-amphiphile *N*-[8-D-gluconamido]octyl-, 11
- D-Glucose, enantiospecific synthesis of 1-deoxythiomannojirimycin from a derivative of, 109
- α -D-Glucopyranose and β -maltose, an AM1 molecular orbital study of: Evaluation and implications, 53
- Glycosides of 2-amino sugars, stereospecific synthesis of 1,2-*cis*-, C7
- Glycosyl donor for the synthesis of 1,2-*trans*-linked saccharides, use of 2-pyridyl 2-acetamido-3,4,6-tri-*O*-acetyl-2-deoxy-1-thio- β -D-glucopyranoside, 277
- Glycosyl hydrogenphosphonates, the stepwise synthesis of oligo(glycosyl phosphates) via, 91
- Glycosyl chlorides, synthesis of some 1,2-*trans*-per-*O*-acetyl-D-, by reaction of 1,2-*trans*-aldose peracetates with thionyl chloride-acetic acid, 297
- Glycosylation with 2,3,4-tri-*O*-benzoyl- α -L-fucopyranosyl bromide under Helferich conditions, 77
- Guanosine-diphosphate- β -L-fucopyranose, synthesis of, 69
- Guava (*Psidium guajava* L.), reexamination of composition and physico-chemical characteristics of water-soluble pectic substances from, 315
- Helferich conditions for α -fucosylation using 2,3,4-tri-*O*-benzoyl- α -L-fucopyranosyl bromide, 77
- Hot-water-soluble components of starches, characterisation of, 203
- HPLC, improved gram-quantity isolation of malto-oligosaccharides by preparative, 1
- Hyaluronan, a detailed ¹H and ¹³C NMR study of a repeating disaccharide of: the effects of temperature and counterion type, 29
- Hydrothermal formation of 1,2,4-benzenetriol from 5-hydroxymethyl-2-furaldehyde and D-fructose, 131
- Imidazolidine-2-selone, crystal and molecular structure of 1-phenyl-(1,2-dideoxy- α -D-glucofurano)[2,1-*d*]-, 265
- Lectin of *Ficus cunia*, purification, characterisation and carbohydrate specificity, 247
- Lipid A, synthesis of 3-*O*-(alkyl-branched acyl)-2-deoxy-2-[(2*R*)-3-hydroxytetradecanamido]-4-*O*-phosphono-D-glucose derivatives related to bacterial lipid A, 303
- Malto-oligosaccharides, improved gram-quantity isolation of, by preparative HPLC, 1
- β -Maltose and α -D-glycopyranose, an AM1 molecular orbital study of: Evaluation and implications, 53
- Mannopyranosyl-(1 \rightarrow 6)- α -D-mannopyranan, chemical synthesis of a comb-shaped branched stereoregular polysaccharide, 4-*O*- α -D-, 161
- Methyl 5-thio-3-*O*-toluene-*p*-sulfonyl- α -D-glucopyranoside and its triacetate, the reaction of sodium azide with, 287
- Methyl 2,3-anhydro- α - and - β -L-erythrofuranoside, synthesis of, 291
- Microbial synthesis of KDPG, 153
- Molecular and crystal structures of 1,2,3,4,5,6,7,8-octa-*O*-acetyl-L-threo-L-altro- and -L-threo-L-galacto-octitol, 21
- Molecular orbital study, an AM1, of α -D-glycopyranose and β -maltose: Evaluation and implications, 53

- Neuraminic acid, formation of anhydro derivatives upon treatment of a new sialic acid-containing polysaccharide with anhydrous hydrogen fluoride, C11
- NMR, ^1H and ^{13}C , a detailed study of a repeating disaccharide of hyaluronan: the effects of temperature and counterion type, 29
- O-Antigen polysaccharide, structural studies of the *Vibrio fluvialis* M-940, 181
- Octitol, crystal and molecular structures of 1,2,3,4,5,6,7,8-octa-*O*-acetyl-L-threo-L-altro- and -L-threo-L-galacto-, 21
- Oligo(glycosyl phosphates), stepwise synthesis via glycosyl hydrogenphosphonates, 91
- Pectic substances from guava (*Psidium guajava* L.) reexamination of composition and physico-chemical characteristics of water-soluble, 315
- 1-Phenyl-(1,2-dideoxy- α -D-glucofurano)[2,1-*d*]imidazolidine-2-selone, crystal and molecular structure, 265
- Phosphomannan from *Hansenula capsulata* Y-1842, chemical synthesis of oligomeric fragments of the extracellular, and from the capsular antigen of *Escherichia coli* K51, 91
- Polysaccharide, structural studies of the *Vibrio fluvialis* M-940 O-antigen, 181
- Polysaccharide, 4-*O*- α -D-mannopyranosyl-(1 \rightarrow 6)- α -D-mannopyranan, chemical synthesis of a comb-shaped branched stereoregular, 161
- 2-Pyridyl 2-acetamido-3,4,6-tri-*O*-acetyl-2-deoxy-1-thio- β -D-glucopyranoside, use as a glycosyl donor for the synthesis of 1,2-*trans*-linked saccharides, 277
- Pyrrolidine, (2*S*,3*R*,4*R*,5*S*)-3,4-dihydroxy-2,5-bis(hydroxymethyl)-, a new practical synthesis of, 311
- D-Quinovosamine (2-amino-2,6-dideoxy-D-glucose) isolated from the cell walls of the alkaliphilic *Bacillus* sp. Y-25, identification by ^1H NMR spectroscopy, 173
- Rumen fungus *Neocallimastix frontalis*, purification and characterisation of an α -D-xylosidase from the anaerobic, 229
- Sialic acid-containing O-specific polysaccharide of *Salmonella arizonae* O21, structural study of a new, and formation of anhydro derivatives of neuraminic acid upon treatment with anhydrous hydrogen fluoride, C11
- Starches, characterisation of hot-water-soluble components of, 203
- Stereospecific synthesis of 1,2-*cis*-glycosides of 2-amino sugars, C7
- Structure of the acidic expolysaccharide of *Pseudomonas marginalis* strain ATCC 10844, 271
- Syntheses of tetra- and penta-saccharide substructures of trestatin A, 141
- Synthesis, stereocontrolled, of GD₂, C1
- 1-Thio- β -D-glucopyranoside, use of 2-pyridyl 2-acetamido-3,4,6-tri-*O*-acetyl-2-deoxy-, as a glycosyl donor for the synthesis of 1,2-*trans*-linked saccharides, 277
- Thionyl chloride-acetic acid, synthesis of 1,2-*trans*-per-*O*-acetyl-D-glycosyl chlorides by reaction of 1,2-*trans*-aldose peracetates with, 297
- 5-Thio-3-*O*-toluene-*p*-sulfonyl- α -D-glucopyranoside and its triacetate, the reaction of sodium azide with methyl, 287
- Trestatin A tetra- and penta-saccharide substructures of, 141
- Triflic anhydride as promoter in the syntheses of linked tetra- and penta-saccharide substructures of trestatin A, 141
- Vibrio fluvialis* M-940 O antigen polysaccharide, structural studies, 181
- Water-soluble pectic substances from guava (*Psidium guajava* L.), reexamination of composition and physico-chemical characteristics of, 315
- β -D-Xylosidase from the anaerobic rumen fungus *Neocallimastix frontalis*, purification and characterisation, 229

